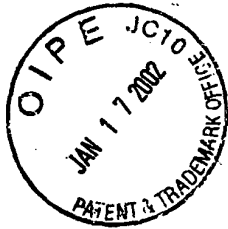


APPENDIX D

Information Disclosure Statement



POSTCARD

The following were received in the United States Patent and Trademark Office:

Title of Invention: **METHOD FOR FAST, ROBUST, MULTI-DIMENSIONAL
PATTERN RECOGNITION**

Attorney Docket No.: C98-035

Attorney: Russ Weinzimmer

Applicant: Silver et al.

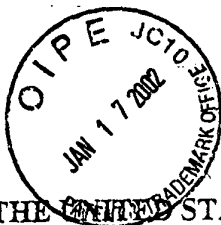
or Tracy Calabresi

Serial No.: 09/114,335

Filing Date: 07/13/98

- Transmittal of Information Disclosure Statement after three months of filing Application and before mailing of a first Office Action on the merits (37 CFR 1.97(b)).
- Form PTO-1449 (in duplicate)
- Copies of references cited in Form PTO-1449.





PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Silver et al.

Serial No.: 09/114,335

Group No.: 2741

Filed: July 13, 1998

Examiner:

For: METHOD FOR FAST, ROBUST, MULTI-DIMENSIONAL
PATTERN RECOGNITION

Attorney Docket Number: C98-035

Assistant Commissioner for Patents
Washington, DC 20231

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
AFTER THREE MONTHS OF FILING APPLICATION AND BEFORE MAILING OF A
FIRST OFFICE ACTION ON THE MERITS (37 CFR 1.97(b))

CERTIFICATE OF MAILING (37 CFR 1.3a)

I hereby certify that on November 25 1998 this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

Linda Washburn Gagen
Linda Washburn Gagen

1. Authority

Pursuant to 37 CFR §§ 1.56 and 1.97-1.99, the Applicant cites to the Examiner documents containing information which, in good-faith judgment of the Applicant, may be relevant to the subject matter claimed in the above-identified application. The Applicant also encloses copies of the English-language cited documents.

In submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, or the extent of any search performed, or that more relevant information does not exist.

In submitting this Information Disclosure Statement, the Applicant makes no representation that any document cited in this Information Disclosure Statement is, or is considered to be prior art as defined by 35 USC §§ 102 and 103.

2. Time of Transmittal of Accompanying Information Disclosure Statement

The Information Disclosure Statement transmitted herewith is being filed *after* three months of the filing date of this national application but *before* the mailing date of the first Office action on the merits.

It is Applicant's understanding that no fee is due; however, if the Applicant is incorrect, please charge any necessary fees for the above-captioned application to Deposit Account No. 03-2357.

3. Co-pending U.S. Applications

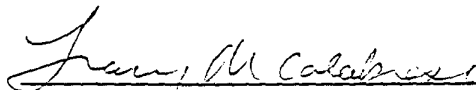
Please be aware that the following co-pending U.S. Patent Applications are related to this patent application:

- 08/727,721 Filed October 7, 1996
- 08/971,241 Filed November 15, 1997
- 09/001,869 Filed December 31, 1997
- 09/108,279 Filed July 1, 1998

The Applicant respectfully requests that:

- a. The Examiner consider the cited information in reaching a determination concerning the patentability of the pending claims; and
- b. The enclosed Form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

Respectfully Submitted.



Russ Weinzimmer Registration No. 36,717
or Tracy M. Calabresi Registration No. 38,920
Attorneys for Applicant

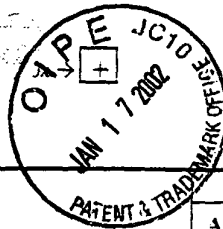
COGNEX CORPORATION

One Vision Drive

Natick, MA 01760

Tel: 508-650-3154 Fax: 508-650-3329

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Application Number	09/114,335
Filing Date	07/13/98
First Named Inventor	Silver
Group Art Unit	2741
Examiner Name	
Attorney Docket Number	C98-035

Sheet 1 of 4

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
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		3,936,800		Eliri et al.	02-03-1976	
		4,200,361		Hubach et al.	04-29-1980	
		4,441,206		Kuniyoshi et al.	04-03-1984	
		4,567,610		McConnell	01-28-1986	
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		4,955,062		Terui	09-04-1990	
		5,046,109		Fujimori et al.	09-03-1991	
		5,048,094		Aoyama et al.	09-10-1991	

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		Office	Number	Kind Code (if known)				

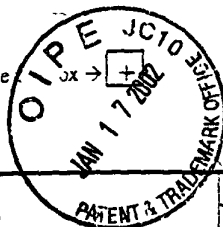
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Attorney Docket Number	C98-035

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		5,384,711		Kanai et al.	01-24-1995	
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		Office	Number	Kind Code (if known)				

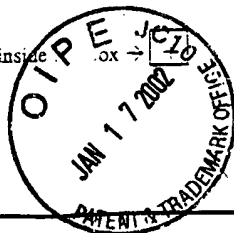
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Examiner Name	
Attorney Docket Number	C98-035

Sheet 3 of 4

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Name of the Author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		BALLARD, D.H., "Generalizing the Hough Transform to Detect Arbitrary Shapes," <i>Pattern Recognition</i> , 1981, pp. 111-122, Vol. 13, No. 2, Pergamon Press Ltd., UK	
		BALLARD, et al., "Section 4.2 Searching Near and Approximate Location," and "Section 4.3 The Hough Method for Curve Detection," <i>Computer Vision</i> , 1982, pp. 121-131, Prentice-Hall, Inc., Englewood Cliffs, NJ, USA	
		BROWN, LISA GOTTFELD, "A Survey of Image Registration Techniques," <i>ACM Computing Surveys</i> , December 1992, pp. 325-376, Vol. 24, No. 4, Association for Computing Machinery, USA	
		CAELLI, et al., "Fast Edge-Only Matching Techniques for Robot Pattern Recognition," <i>Computer Vision, Graphics, and Image Processing</i> 39, 1987, pp. 131-143, Academic Press, Inc.	
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		COGNEX CORPORATION, "Chapter 14 Golden Template Comparison," <i>Cognex 3000/4000/5000 Programmable Vision Engines, Vision Tools</i> , 1996, pp. 569-595, Revision 7.4 590-1036, Natick, MA, USA	
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		COGNEX CORPORATION, "Description of Sobel Search," Natick, MA, USA, 1998 but public before the above-referenced filing date.	

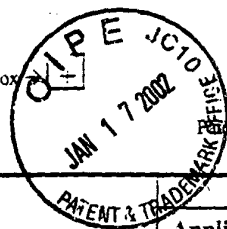
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/114,335
		Filing Date	07/13/98
		First Named Inventor	Silver
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		Examiner Name	
Sheet	4	of	4
		Attorney Docket Number	C98-035

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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		CROUZIL, et al., "A New Correlation Criterion Based on Gradient Fields Similarity," <i>Proceedings of the 13th International Conference on Pattern Recognition Volume I Track A: Computer Vision</i> , August 25-29, 1996, pp. 632-636. IEEE Computer Society Press, Los Alamitos, CA, USA	
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		HSIEH et al., "Image Registration Using a New Edge-Based Approach," <i>Computer Vision and Image Understanding</i> , August 1997, pp. 112-130, Vol. 67, No. 2, Academic Press	
		ROSENFELD et al., "Coarse-Fine Template Matching," <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , February 1997, pp. 104-107, USA	
		TIAN et al., "Algorithms for Subpixel Registration," <i>Computer Vision, Graphics, and Image Processing</i> 35, 1986, pp. 220-233, Academic Press, Inc.	

Examiner Signature		Date Considered	
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